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APPLICATI	ON NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/812	,252	03/19/2001	Gary B. Gordon	10010189-1	7805
57299	7590	01/12/2006		EXAMINER	
	GO TECHNO	OLOGIES, INC.	ABDULSELAM, ABBAS I		
		CO 80201-1920		ART UNIT	PAPER NUMBER
	,			2677	

DATE MAILED: 01/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		09/812,252	GORDAN ET AL.
	Office Action Summary	Examiner	Art Unit
		Abbas I. Abdulselam	2677
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the c	orrespondence address
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DONE OF TH	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status			
2a)□	Responsive to communication(s) filed on 10/2. This action is FINAL . 2b) This Since this application is in condition for alloware closed in accordance with the practice under Expression 10 to	s action is non-final. nce except for formal matters, pro	
Dispositi	on of Claims		
5)□ 6)⊠ 7)□ 8)□ Applicati 9)□	Claim(s) 1-35 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-35 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the	wn from consideration. or election requirement. er. epted or b) objected to by the E	
11)	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex		·
-	ınder 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
2) 🔲 Notic 3) 🔲 Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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DETAILED ACTION

1. This office action is in response to a communication filed on 10/28/05. Claims 1-35 are pending. In light of a response from an applicant, the following non-final action is issued in view Gillespie et al. (USPN 5880411).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gillespie et al. (USPN 5880411).

Regarding claims 1 and 19, Gillespie teaches as shown in Fig.1 a capacitive position sensing system 6, which can accurately determine the position of a finger 8 or other conductive object proximate to or touching a sensing plane 10. Gillespie discloses the capacitance of a plurality of conductive lines running in a first direction (e.g., "X") that is sensed by X input processing circuitry 12 and the capacitance of a plurality of conductive lines running in a second direction (e.g., "Y") that is sensed by Y input processing circuitry 14. Gillespie further teaches that the sensed capacitance values are digitized in both X input processing circuitry 12 and Y input processing circuitry 14, and the outputs of X input processing circuitry 12 and Y input processing circuitry 14 are presented to arithmetic unit 16, which uses the digital information to

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derive digital information representing the position and pressure of the finger 8 or other conductive object relative to the sensing plane 10. Furthermore, Gillespie teaches that the X, Y, and Z outputs of arithmetic unit 16 are directed to motion unit 18 which provides the cursor motion direction signals to the host computer (col. 9, lines 3-43 and Fig. 1 (8, 10, 12, 14)).

Gillespie does not specifically teach "a controller configured to generate movement data based on a comparison of successively generated sets of the pixel values, the comparison including comparing a first one of the sets with at least one pixel shifted version of a second one of the sets, the movement data indicative of motion of the tip of the digit across the sensing elements".

Gillespie on the other hand teaches gesture unit 20, which is used to recognize certain finger gestures performed by a user on sensing plane 10. Gillespie teaches the gesture unit 20 in terms of determining whether a drag gesture is continuing or is being ended and a new finger action begun by comparing the lift-off finger position and the touchdown finger position (Fig. 1 (20), Fig. 14 (280, 286) and col. 36, lines 56-65).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize Gillespie's gesture unit (20) shown in Fig. 1 for the purpose of quantifying the movement of a finger on the sensing plane (10) as taught Gillespie (see Fig. 14 and Fig. 20).

Regarding claims 2, 5-7, 11, 20-23, Gillespie teaches as discussed above, an arithmetic unit 16, which uses the digital information to derive digital information representing the position and pressure of the finger 8 or other conductive object relative to the sensing plane 10. (See Fig. 1 (16)).

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Regarding claims 3-4, 15-18 and 28-35, Gillespie teaches sensing plane 10 comprising a touch sensor array 22, and capacitance of a plurality of conductive lines (see Fig. 1(10)).

Regarding claims 8-9 and 24-25, Gillespie teaches that insulating layer 36 is disposed over the sense pads 34 on top surface 28 (Fig 2 (C-D)).

Regarding claims 10 and 26, Gillespie teaches as shown in Fig. 2, a substrate 24.

Regarding claims 12-14, and 27, Gillespie teaches the use of alternating current, and discloses power conservation device along with a charge integrator circuit 44 (see Fig. 4A) (col. 17, lines 52-57).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following art is cited for further reference.

U.S. Pat. No. 5,892,499 to Vulk

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abbas I. Abdulselam whose telephone number is 571-272-7685. The examiner can normally be reached on Monday through Friday from 9:00 A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amr Awad can be reached on 571-272-7764. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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Abbas Abdulselam

Examiner

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12/22/05

PRIMARY EXAMINER

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